

ABSTRACT

Disclosed is a system for the treatment of cerebral aneurysms using a stent and a aneurysm pocket fill structure delivery system. One embodiment of the present invention uses a highly radiopaque, drug eluting stent that is deployed with its sidewall over the ostium of the aneurysm pocket. A fill structure delivery catheter is then advanced through the patient's vascular system until the catheter's distal end is situated within the aneurysm pocket. Compressed aneurysm pocket filling structures are then pushed through the fill structure delivery catheter. As the aneurysm pocket filling structures emerge from an opening in the catheter's distal end, they promptly expand so that their minimum dimension is sufficiently large so that they cannot pass through the spaces between the struts of the stent that cover the ostium of the aneurysm pocket.